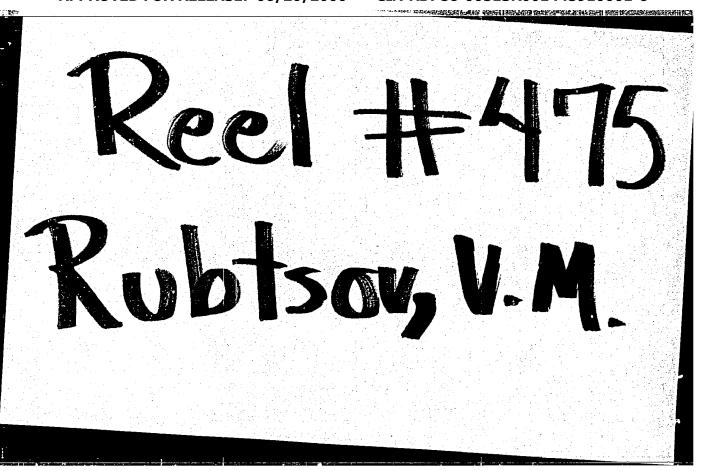


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RUBTSOV, V.M.

Oscillations of a plane hexagonal lattice with allowance for non-point interaction. Izv. vys. ucheb. zav.; fiz. no.6:37-40 '63.(MIRA 17:2)

1. Novokuznetskiy gosudarstvennyy pedagogicheskiy institut.

。 《大学》(1974年) 1974年 1985年 1

ACCESSION NR: AP4025085

s/0139/63/000/006/0037/0040

AUTHOR: Rubtsov, V. M.

TITLE: Oscillations of a plane hexagonal lattice with consideration of non-point interaction. 2. Planar cacillations

SOURCE: IVUZ. Fizika, no. 6, 1963, 37-40, and insert facing page 37

TOPIC TAGS: plane hexagonal lattice, non-point interaction, planar oscillation, Blekman method, heat capacity, vertical oscillation, secular equation, dynamic matrix

ABSTRACT: Using Blekman's method, the author firds functions of the density of frequencies of planar oscillations of a plane hexagonal lattice. He computes heat capacity of the lattice for planar and vertical oscillations. All computations were done on the EVM of the Institut matematiki SO AN SSSR (Institute of Mathematics SO AN SSSR). In a table, the author shows certain computed and experimental values of the heat capacity. Agreement can be considered good in the interval 100-600°. At lower temperatures the theoretical heat capacity considerably exceeds the experimental. Orig. art. has: 1 table, 2 figures, and 4 formulas.

Card 1/2

ACCESSION 1	NR: AP4025	085						]
ASSOCIATION: Novokuznetskiy gosudarstvenny*y pedagogicheskiy institut (New Kuznetsk State Pedagogical Institute)								
SUBMITTED:	07Ju162		DATE ACQ:	14Feb64		ENCL:	00	
SUB CODE:	PH		no ref sov	1 001;		OTHER:	003	
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Card 2/2								

RUBTSOV, V.M.

Density function of oscillation frequencies and the heat capacity of the graphite lattice. Izv. vys. ucheb. zav.; fiz. no.5:147-150 (MIRA 16:12)

1. Movokuznetskiy gosudarstvennyy pedagogicheskiy institut.

#### RUBTSOV, V. M.

Oscillations of a plane hexagonal lattice with allowance for non-point interaction. Part 1. Vertical oscillations. Izv. vys. uch. zav.; fiz. 3:24-32 \*62. (MIRA 15:10)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosu-darstvennom universitete imeni V. V. Kuybysheva.

(Oscillations) (Crystal lattices)

ZHDANOV, V.A.; RUBTSOV, V.M.

Dynamics of crystal lattices with regard to neapoint interaction of atoms. Izv.vys.ucheb.zav.;fiz. no.1:3-9 '62. (MIRA 15:6)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva.

(Crystal lattices)

(Dynamics of a particle)

Dynamics of a simple cubic lattice with regard to nonpoint interaction of atoms. Izv.vys.ucheb.zav.;fiz. no.1:72-79 '62. (MIRA 15:6)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

(Molecular dynamics) (Lattice theory)

ZHDANOV, V.A.; RUBTSOV, V.M.

Remarks on central forces in crystals. Izv.vys.ucheb.zav.; fiz. no.1:165-166 '61. (MIRA 14:7)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.

(Lattice theory)

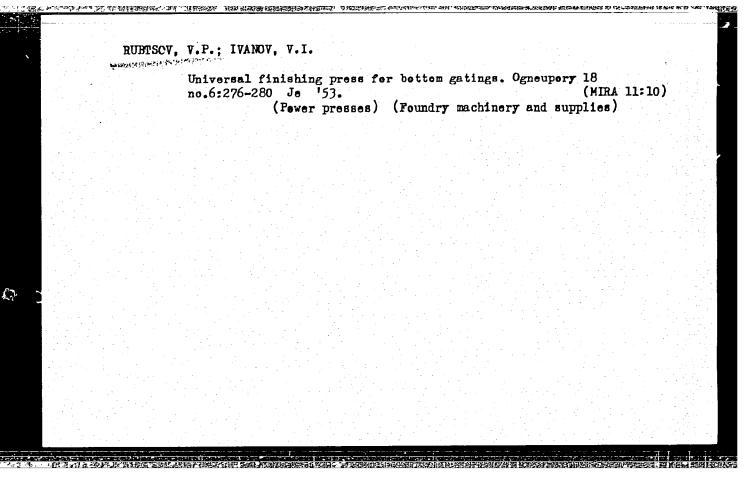
ZHDANOV, V.A.; RUBTSOV, V.M.

Theory of the moduli of elasticity of crystals. Izv.vys.ucheb.zav.;
fiz. no.1:168-169 '61. (MTRA 14:7)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.

(Elasticity) (Crystal lattices)

[Close distances; essays about Fenza Province] plizkie dali; ocherki o Fenzenskoi oblasti. Fenza, Fenzenskoe knizhnoe izd-vo, 1963. 106 p. (MIMA 17:16)



IVOROTENKO, B.A., inzh.; RUBTSOV, V.P., inzh.

Electromagnetic design of reactive reductor-type stepping motors.

Trudy MEI no.38:223-266 '62. (MIRA 17:2)

RUBTSOV, V.P.

Seedlings

Breeding of fruit seedlings, Est. v shkole no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 /477, Uncl.

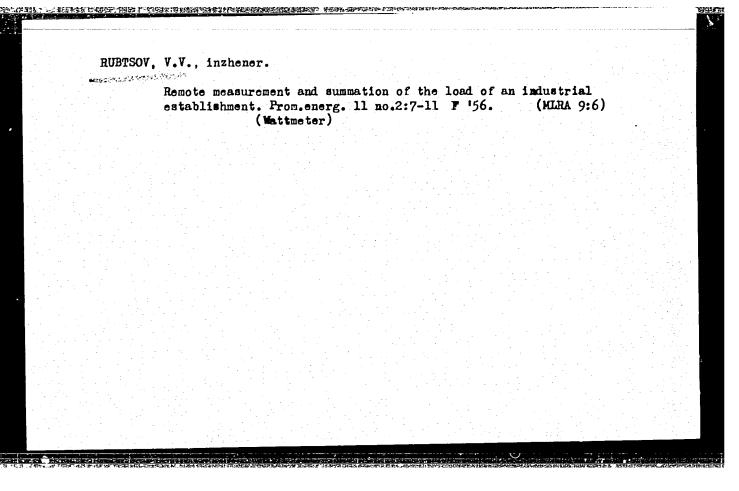
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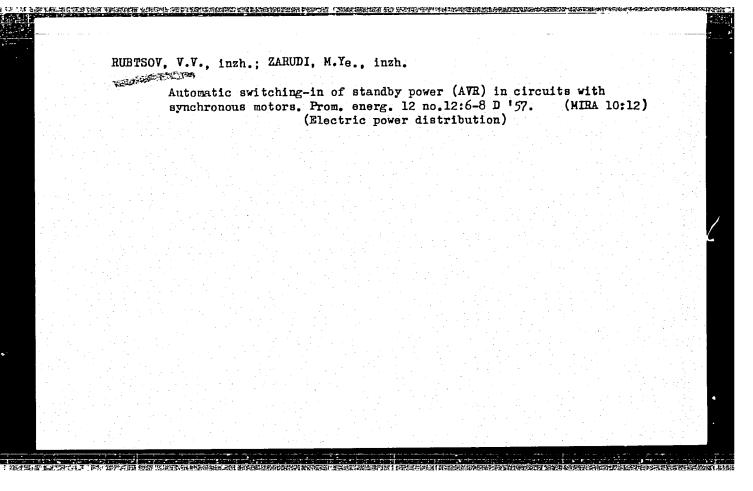
RUBTSOV, V.V., kand. sel'skokhozyaystvennykh nauk

Reaction of active apple tree roots to soil cultivation practices in the orchard. Dokl. 4kad. sel'khoz. 24 no.5:30-33 '59.

(MIRA 12:7)

l.Orlovskaya plodovo-yagodnaya stantsiya. Predstavlena otdeleniyem zemledeliya Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina. (Roots (Botany)) (Apple)





RUBTSOV VV.

8(5) AJTHORS: Sirotin, Artemiy Afanas'yevich, Candidate SOV/161-58-2-24/30 of Technical Sciences, Docent at Kafedra elektrooborudovaniya prompredpriyatiy Moskovskogo energeticheskogo instituta (Chair of Electrical Equipment of Industrial Enterprises), Sokolov, Nikolay Georgiyevich, Candidate of Technical Sciences, Docent at the Chair of Electrical Equipment of Industrial Enterprises, Moscow Power Engineering Institute, Rubtsov, Vladimir Vasil'yevich, Engineer at the 1 Podshipnikovyy zavod g. Moskvy Ist Bearing Factory of the City of Moscow)

TITLE:

Electric Lag Drive of the Cross Feed (Transverse Feed) of Sphero-Grinders (Sledyashchiy elektroprivod poperechnoy podachi sferoshlifoval'nykh stankov)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika,

1 Bit 2022 ----

1958, Nr 2, pp 196 - 204 (JSSR)

ABSTRACT:

The system of the cross feed electric drive should secure the removal of the main part of the supply at the maximum admissible actual feed. The slight rest of the supply has to be removed from a feed which secures the necessary quality of the product surface at minimum time. These requirements are met by the lag drive of the cross-feed which was developed for sphero-

Card 1/3

Electric Lag Drive of the Cross Feed (Transverse Feed) SOV/161-58-2-24/30 of Sphero-Grinders

grinders by the co-workers of the Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute) in cooperation with the Pervyy gosudarstvennyy podshipnikovyy zavod 1GP3(First State Warehouse Factory 1GP3). The mode of effect of the lag system of cross feed is described and the electric wiring diagram of sphero-grinders with the lag drive of cross feed is shown. This system was fitted to the sphero-grinders of the Leningradskiy zavod imeni Il'icha (Leningrad Works imeni Il'ich) and to the machines of the Van-Norman works. The experimental investigation of the electric lag drive are described. The positive properties of the electric lag drive are as follows: 1) A check at the workshop has shown that this system meets the series production requirements of ball-bearing factories. 2) When correctly adjusted, the lag system prevents scrap of rings owing to burning. 3) The lag feed increases by efficiency a correct adjustment as compared to the existing mechanical facilities. 4) The surface quality at a lag feed is between the 7th and 8th class. 5) The lag feed permits an uncomplicated adjustment of one mode of operation to another. 6) The

Card 2/3

Electric Lag Drive of the Cross Feed (Transvers: Feed) SOV/161-58-2-24/30 of Sphero-Grinders

grinder is protected against excessive wear. 7) The electric diagram is not more complicated. 8) The diagram is more reliable than in other cases, due to the use of semiconductor valves instead of thermionic valves. 9) It is an automatic feed. 10) The specific energy consumption is lower by 16.1% as compared to mechanical feed. 11) The kinematic diagram of the cross feed assembly is by far less complicated. There are 8 figures.

ASSOCIATION:

Kafedra elektrooborudovaniya prompredpriyatiy Moskovskogo energeticheskogo instituta (Chair of Electrical Equipment of Industrial Enterprises, Moscow Power Engineering Institute)

SUBMITTED:

February 10, 1958

Card 3/3

SIROTIN, Artemiy Afanas'yevich, dots, kand. tekhn. nauk; SOKOLOV, Nikolay Georgiyevich, dots., kand. tekhn. nauk; RUBTSOV, Vladimir Vasil'yevich, inzh.

Follower electric drive for the lateral feed of sphere-polishing machines. Nauch. dokl. vys. shkely; elektromekh. i avtom no.2:196-204 '58. (MIRA 12:1)

1. Rekomendovana dafedroy elektrooborudovaniya prompredpriyatiy Moskovskogo energeticheskogo instituta. 2. Podsnipnikovyy zavod g. Moskvy. (for Rubtsov).

(Servomechanisms)

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910001-6"

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour

: Ref Zhur Biol., No 12, 1958, 53770

Author

Rubtsov, V.V.

Inst

: Fruit and Vegetable Institute in. I.V. Michurin

Title

: Restoration of Soil Fertility in Fruit Bearing Orchard

Orig Pub

: Tr. Plodoovoshchn. in-ta in. I.V. Michurina, 1956, 9,

15-37

Abstract

The author's studies conducted for 3 years in the orchard of the Michurin Scientific Research Institute, and the observations of production experiments of the front rank establishments of Povolzh'ye, the Central Region and the Belorussian SSR set the course for reducing the negative effect of perennial grasses sown as intercrops in the rows between the fruit trees. The best nethod was by turfing alternate spaces between the rows. In the case

Card 1/2

- 107 -

RUBTSOV, V.V., inzhener.; KIREYEV, M.I., inzhzner.

"Operating the power plants of industrial enterprises." Prom. energ. 12 no.4:36-39 Ap '57. (MIRA 10:5)

1. 1-y Gosudarstvennyy podshipnikovyy zavod imeni L. M. Kaganovicha (for Rubtsov).

(Electric power) (Konstantinov, B.A.) (Luk'ianov, T.P.)

NACES ALL SERVICE DE LA COMPANION DE LA COMPAN

"The Effect of Grass Mixtures (and Methods of Sowing Them in the Orchard) on the Growt and Fruit Bearing of Apple Trees." Cand Agr Sci, Fruit and Vegetable Inst imeni I. V. Michurin, Min Higher Education USSR, Michurinsk, 1955. (KL, No 15, Apr 55)

SO: Sum. Mo. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

AUTOMATIC CONTROL AND PROTECTION

"Protective Circuits Employing AC Operating Current" by <u>V.</u>
Ya. Rubtsov. Energeticheskiy Byulleten', No. 6, June 1957,
Pages 7 -- 9.

Such equipment usually employs saturating current transformers, the operation of which is rather difficult to control. The author proposes a scheme reducing the load on the saturating transformers, thereby increasing the reliability of their operation.

Card 1/1

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	The state of the s	Relay circuits on	a.c. operating current.	Energ.biul. no.6:7-9	
		Je '57.		(MIRA 10:7)	Y .
			(Electric relays)		
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LUXOVNIKOV, A.V., inzhener; RUETSOV, V.Ya., inzhener

Uning automatic protective equipment for rural electric systems.
Elek.stn.26 no.11:40-42 N'55.

(Electric circuit breakers)

(Electric circuit breakers)

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Subject : USSR/Power

AID P - 4024

Card 1/1 Pub. 26 - 13/31

Author

: Lukovnikov, A. V. and V. Ya. Rubtsov, Engs.

Title

: Using automatic switches to protect rural power plants.

Periodical : Elek. sta., 11, 40-42, N 1955

Abstract

: Types of automatic switches used at rural power plants

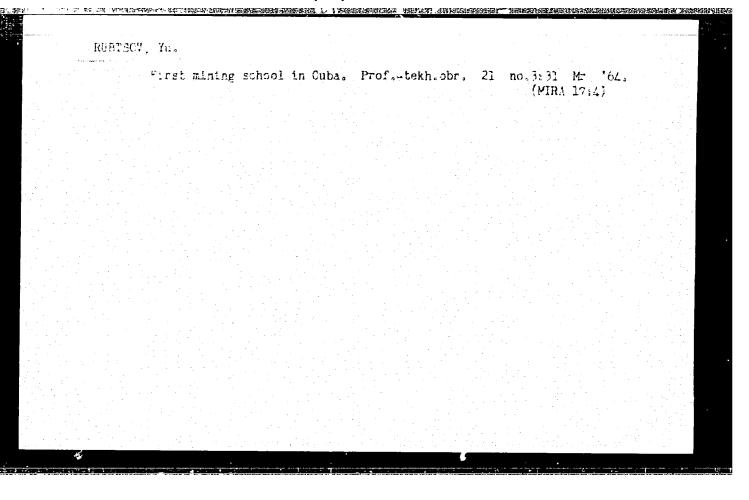
are discussed and their data given. Two diagrams.

Institution: None

Submitted : No date

Absorption of High Energy Nucleions in the Atmosphere and Production of Mesons report submitted for the '8th Intl. Conf. on Cosmic Rays (IUPAP), Jaipur, India, 2-14 Dec 1963

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910001-6"



81937 S/062/60/000/06/09/011 B020/B061

11.5000

AUTHORS:

Dubovitskiy, F. I., Rubtsov, Yu. I., Barzykin, V. V.,

Manelis, G. B.

TITLE:

Kinetics of the Thermal Decomposition of Dinitroxydiethyl-

nitramine 4

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 6, pp. 1126-1128

TEXT: The kinetics of the thermal decomposition of dinitroxydiethylnitramine is investigated here by three different methods, the evolution
of gas, the change of weight, and the evolution of heat. When studying
the kinetics on the basis of the evolution of gas, the same method as
earlier (Ref. 5) was used. The curves of the rate of heat evolution are
graphically illustrated in Fig. 1, and the temperature dependence of the
reaction rate constants in Fig. 2. The values obtained for the reaction
heat of the thermal decomposition of dinitroxydiethylnitramine are
tabulated. As may be seen from the Table, the thermal effect of the

Card 1/2

Kinetics of the Thermal Decomposition of Dinitroxydiethylnitramine

81937 \$/062/60/000/06/09/011 B020/B061

reaction rises slowly with increasing temperature, the temperature rise in the range 150 - 170° being about 6%. The decomposition takes place as a reaction of the first order. The rate constants were experimentally determined, and the activation energy and the factor of the exponential function were calculated. There are 2 figures, 1 table, and 6 references: 2 Soviet, 3 Canadian, and 1 British.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: October 6, 1959

Card 2/2

84850

11.8200

AUTHORS:

S/062/60/000/010/003/018 B015/B064

Dubovitskiy, F. I., Rubtsov, Yu. I., and Manelis, G. B.

TITLE: Kinetics of Heat Evolution in the Thermal Decomposition of Tetryl

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 10, pp. 1763-1766

TEXT: Since there are no experimental data available on the amount of heat resulting from thermal decomposition of explosives, as well as on the kinetics of heat evolution during the decomposition, the authors investigated the kinetics of heat evolution in the thermal decomposition of tetryl with a differential self-regulating calorimeter (Ref. 1). The determinations were made for the temperature range 1300-155°C, with the weighed portion being such as to permit the decomposition to be regarded as isothermal. As is shown by the curves (Fig. 1) representing the rate of heat evolution, the tetryl decomposition has a self-accelerating character. Table 1 gives the amounts of heat resulting from thermal

Card 1/2

84850

Kinetics of Heat Evolution in the Thermal Decomposition of Tetryl

5/062/50/000/010/003/018 B015/B064

decomposition for the temperature range investigated; the mean value is 341 cal/g. The reaction kinetics of tetryl decomposition is described by an equation (2) of autocatalysis of the first order which takes account of the volume change occurring in the course of the reaction. The kinetic constants (Table 2) were determined from equation (2), and the values of the activation energies and the factors of the exponential functions from the temperature function of the rate constants. The kinetic constants obtained from heat evolution, on the one hand, and the weight loss, on the other, were found to be the same. There are 3 figures, 2 tables, and 4 references: 3 Soviet and 1 British.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: June 6, 1959

Card 2/2

5,460

5/195/62/003/001/001/010 E071/E136

||, VY14 AUTHORS:

Manelis, G.B., <u>Bubtsov. Yu. I.</u>, Smirnov, L.P., and

Dubovitskiy, F.I.

STEED TO SEE THE STEED OF SEEDING SEED

TITLE: Kinetics of thermal decomposition of pyroxilin

PERIODICAL: Rinetika i kataliz, v.3, no.1, 1962, 42-48

As the literature data on thermal decomposition of TEXT: nitrocellulose are contradictory, the authors investigated the kinetics of thermal decomposition of pyroxilin powder within a temperature range of 140-165 °C. The kinetics were studied by three different methods: by the evolution of heat in a double calorimeter (in vacuo and at atmospheric pressure); by changes in weight on an automatic thermal balance in the presence of air; and by gas evolution in a static vacuum apparatus with subsequent analysis of gaseous decomposition products. found that thermal decomposition of pyroxilin powder in air as well as in vacuo takes place to a certain depth of decomposition (depending on the temperature) with autocatalysis of the first order; subsequently the process continues as the first order The heat effect of thermal decomposition is reaction. Card 1/3

independent of the temperature and is on average about 750 cal/g which amounts to more than 80% of the heat of combustion (about 900 cal/g). On decomposition in vacuo the heat effect decreases to 515 cal/g. In the autocatalysis equation

 $d\eta/dt = k_1(1 - \eta) + k_2 \cdot \eta(1 - \eta)$ 

which describes well this stage of the reaction,  $k_1$  and  $k_2$  were calculated from experimental data. The temperature dependence of these constants (for heat evolution in air) was found to be:

 $k_{1} = 10^{19} \cdot e \frac{47000}{RT}$   $k_{2} = 10^{12} \cdot e \frac{31000}{RT}$   $\sec^{-1}$ 

The main gaseous product in the initial stage of decomposition is NO; with increasing degree of decomposition the percentage of Card 2/3

S/195/62/003/001/001/010 E071/E136

initially split NO<sub>2</sub> group reacts quickly with the condensed phase leading to the formation of nitrogen oxide, carboxyl and carbonyl groups. The process of decarboxylation proceeds with a lower velocity than the reaction of formation of NO and develops mainly at the end of decomposition when the destruction of the polymeric chain is well advanced. The catalytic influence of gaseous decomposition products is indicated by the fact that the velocity constant k<sub>2</sub> is lower on removal of the gaseous products than it is in their presence. However, the autocatalysis of thermal decomposition of pyroxilin was also observed on continuous removal of gaseous products, indicating that functional groups (carboxyl, carbonyl, etc.) of the polymeric molecules, formed in the course of the reaction, also have a catalytic influence. There are 6 figures and 3 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics, AS USSR)

SUBMITTED: April 3, 1961

Card 3/3

L 22341=66, EWT(m)/ETC(f)/EPF(n)=2/EWG(m)/EWP(j)/T/EWP(t)/ETC(m)=6 IJP(c)
ACC NR; AP6013905 DS/JD/WW/JWD/RM SOURCE CODE: UR/0076/66/040/004/0770/0774

AUTHOR: Manelis, G. B.; Rubtsov, Yu. I.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: The kinetics of thermal decomposition of ammonium perchlorate

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 4, 1966, 770-774

TOPIC TAGS: ammonium perchlorate, solid propellant, combustion

ABSTRACT: The kinetics of thermal decomposition of ammonium perchlorate (AP) were studied in the range 196.5—280C. The kinetic constants and the heat of the reaction were determined. Examination of the kinetic curves obtained by gravimetric methods indicates that in the range 200—280C the reaction rate falls off sharply after 30—35% of the starting sample had decomposed; the reaction continues at a corthorhombic to a cubic crystalline modification. The transition is accompanied by a substantial decrease in the reaction rate, since in the cubic crystal lattice the decomposition develops more slowly. The heat of reaction was found to be metric analysis of the decomposition products showed that, in addition to nitrogen oxides, appreciable amounts of free nitrogen are present. Orig. art. has: 2 tables SUB CODE: 21/ SUBM DATE: O9Dec64/ ORIG REF: O04/OTH REF: O10/ ATD PRESS: 1716.

GATYUK, O.S., FURTHOW, Yu. L.; MALLENOVSKATA, G.F.; MANECUO, G.B.

Micronalcrimeter for studying the kinetize of chemical reactions. Zhur. fiz. khim. 39 mo.9:2319-3322 S 165.

(MIRA 18:10)

L. Institut khimicheskoy fiziki AN SSSP.

**Letter** 

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RUBTSOVA, A.

Issledovanie modeli samoleta na shtopor. Moskva, 1935. 21 p., diagrs. (TSAGI. Trudy, no. 173)

Summary in English.

Tile tr.: Spinning tests on a model airplane.

QA911.M65 no. 173

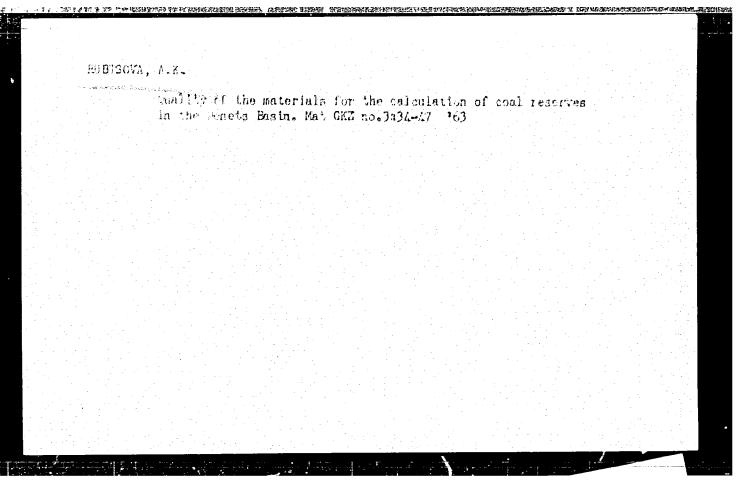
SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

RUBTSOVA, A.D.

[Physical culture therapy in posture disorders and scolieses in school-children; scientific-practical and visual aid for physicians and methodologists in physical therapy] Lechebnaia fizkul'tura pri rasstreistvakh esamki i skeliezakh u shkel'nikev; uchebne-prakticheskee i nagliadnee pesebie dlia vrachey i metedistev pe lechebnei fizkul'ture. Meskva, Medgiz, 1955. 198 p.

(PHYSICAL THERAPY) (SPINE-ABNORMITIES AND DEFORMITIES)

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Nesmelov, S.V., A.B. Bakutkin, and A.A. Popov. Automation of the Petroleum Refining and Petroleum-Chemical Industries

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Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 193 (USSR)

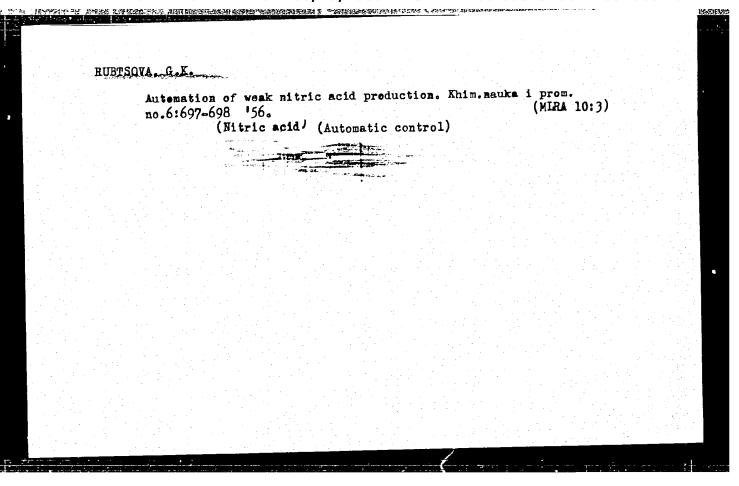
AUTHOR: Rubtsova, G. K.

TITLE: Automation of Production of Weak Nitric Acid and Ammonium Nitrate (Avtomatizatsiya proizvodstv slaboy azotnoy kisloty i ammiachnoy selitry)

PERIODICAL: V sb.: Avtomatiz khim. i koksokhim. proiz-v. m., Metallurgizdat, 1958, pp 52-67

ABSTRACT: Schemes are described of automatic regulation of production of weak nitric acid under atmospheric pressure and under 35 atm, as well as the process of production of grained ammonium nitrate. A short review of automatic schemes for these processes used abroad is presented. Eight illustrations. Bibliography: 13 items.

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Exerction of willow Howide and baffer properties of the urine.

Bor'ba s sil. 6:287-290 '64 (MIMA 18:1)

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NIKOL'SKIY, V.V.; RUBTSOVA, G.V.

Effect of X-irradiation on the formation of pancreatic enzymes. Vop.med.khim. 6 no.4:365-368 J1-Ag '60. (MIRA 14:3)

1. Chair of Biochemistry and Chair of Radiology, Rostov Medical Institute.

(PANCREAS—SECRETIONS) (X RAYS—PHYSIOLOGICAL EFFECT)

RUBTSQVA, I. D.

AUBTSCVA, I. D.: "The problem of the development of the mycorrhiza of certain cereal crops under the conditions of Voronezh Oblast."

Voronezh State Pedagogical Inst. Chair of Botany. Voronezh, 1956.

(Dissertation for the Degree of Candidate in Biological Sciences).

Source: Knizhnaya letoris No. 28 1956 Moscow

RUBTSOVA, I.D., kand. biolog. nauk

Mycotrophy of gramineous plants. Agrobiologiia no.6:932-934

N-D 163. (MIRA 17:2)

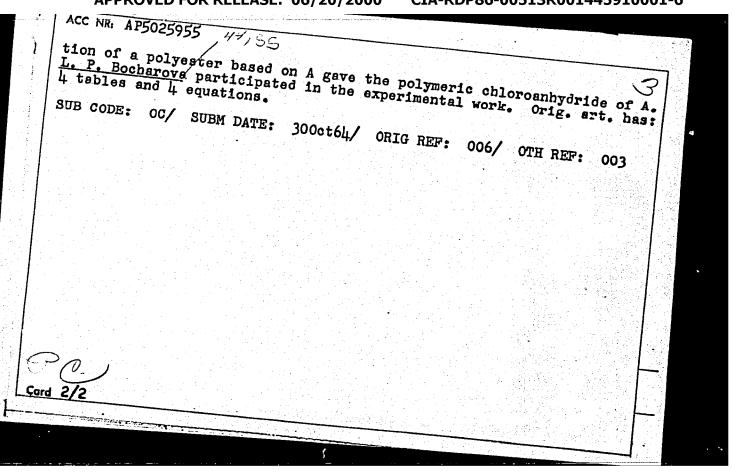
1. Pedagogicheskiy institut, Tambov.

RUBTSOVA, I.D., kand. biologicheskikh nauk

Development of the mycorhiza of sorghum. Agrobiologiia no.5:759761 S-0 '60.

1. Voronezhskiy gosudarstvennyy pedagogicheski; institut.
(Nycorhiza) (Sorghum)

ACC NR: AP5025955  AUTHOR: Shner, S. M.; Rubtaova, I. K.; Gefter, Ye. L.  ORG: Scientific Research Institute of Plastics (Nauchnosissledovatel'skiy institut plasticheskikh mass)  issledovatel'skiy institut plasticheskikh mass)  TITLE: Investigation of conversions of di-(beta-chloroethyl) phosphite and di-(beta-chloroethyl) chlorophosphate  and its derivatives. Report No. 1. Homopolycondensation of chloroethyl) phosphite and di-(beta-chloroethyl) chlorophosphate  SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965,  SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965,  TOPIC TAGS: organic phosphorus compound, polycondensation, chlorina-  tion, polyester plastic (CHLOKINGIED ORGANIC COMPOUND)  ABSTRACT: The homopolycondensation phosphite (A) and of di-(beta-chloroethyl) chlorophosphate (B) was studied. Phosphorus-containing  Interature, of di-(beta-chloroethyl) phosphite. (A) and of A pro-chloroethyl chlorophosphate (B) was studied. Phosphorus-containing polyesters/were synthesized from A and from B by thermal homopolycondensation upon elimination of dichloroethne. Resction of A pro-condensation upon elimination of to give a polyester yield of 99,446  condensation upon elimination of to give a polyester yield of 99,446  condensation upon elimination of to give a polyester yield of 678,6714  in 6-7 hours. B is best reacted at 186-1880 for 2.5 hours.	APPROVED FOR RELEASE: 00/20/2000 CIA-RDP00-00313R001443910001-0
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L 62831-65 EMT(m)/EPF(c)/EPR/EMP(j) Pc-L/Pr-L/Ps-L WW/JAJ/RM UR/0286/65/000/012/0075/0075 ACCESSION NR: AP5019045 678.674 : 678.028.294 AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.; Rubtsova, I. K.; Travnikova, L. V. TITLE: A method for hardening unsaturated polyester resins. Class 39, No. 172037 15 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 75 TOPIC TAGS: plastic, resin, polyester resin, thermal stability ABSTRACT: This Author's Certificate introduces a method for hardening unsaturated polyester resins by copolymerization with a cross-linking phosphorus-containing agent in the presence of an oxidation-reduction system at room temperature. The thermal stability and self-stopping properties of these polyesters are improved by using di(methacrylethyl)methylphosphinate as the phosphorus-containing cross-linking agent. ASSOCIATION: Nauchno-issledovatel'skly institut plasticheskikh mass (Scientific Card 1/2

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L 20376-66 EWT(m)/EWP(j)/T/ETC(m)-6 WW/RM

ACC NR: AP6006542

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SOURCE CODE: UR/0191/65/000/011/0027/0028

AUTHORS: Kirilovich, V. I.; Rubtsova, I. K.

ORG: none

TITLE: Synthesis of unsaturated esters of polypentamethylenephosphoric acid

SOURCE: Plasticheskiye massy, no. 11, 1965, 27-28

TOPIC TAGS: organophosphorus compound, polyester, polymer, fire resistant material

ABSTRACT: It was the object of the present investigation to extend earlier investigations carried out in the area of synthesis of fireproof plastics by V. I. Kirilovich, I. K. Rubtsova, and Ye. L. Gefter (Plast. massy No. 7, 20, 1963). A number of unsaturated esters of polypentamethylenephosphoric acid were synthesized by the interaction of polypentamethylenechlorophosphate with allyl and furfuryl alcohol, 5-methyl-2-isopropylhexene-3-ol-1 and 2-ol-1, and 2-ethylhexene-3-ol-1 and 2-ethylhexene-2-ol-monoethyleneglycol methylmethacrylate. The extent of reaction, relative viscosity, and dimethylformamide and the phosphorus content of the synthesized esters was determined. The experimental results Gard 1/2

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AUTHOR: Kirilovich, V. I.; Rubtsova, I. K.	
ORG: none	
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SOURCE: Plasticheskiye massy, no. 7, 1966, 19-21	
TOPIC TAGS: polyester plastic, phosphite, sodium, catalytic polymerization	
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EWP(j)/EWT(m)/ETC(m)-6/T IJP(c) RM/WW SOURCE CODE: UR/0191/66/000/002/0010/0011 (A) ACC NR: AP6005945 AUTHORS: Kirilovich, V. I.; Rubtsova, I. K.; Pokrovskiy, L. I.; Khinich, R. V.; Fedorov, A. A. ORG: none TITLE: Synthesis of phosphor-containing polyesters and their application in preparation of fireproof polyurethane foams SOURCE: Plasticheskiye massy, no. 2, 1966, 10-11 TOPIC TAGS: polyester plastic, polyurethane, foam plastic, fire resistant material, phosphorous acid, esterification ABSTRACT: Polytransesterification of dimethylphosphorous acid (I) with polyols (pentaerythritol, trimethylolpropane, trimethylolethane) or of mixed polyols and diols in various ratios, has been investigated. This work is a continuation of a study of polyphosphite synthesis by V. I. Kirilovich, I. K. Rubtsova, and Ye. L. Gefter (Plast. massy, No. 7, 20, 1963), and was undertaken to test the suitability of polyesters in imparting fire-resistant properties to polyurethane foams. Reaction of the mixture of diols and polyols with I yields polyesters UDC: 678.664-496:678.029.65 Card 1/2

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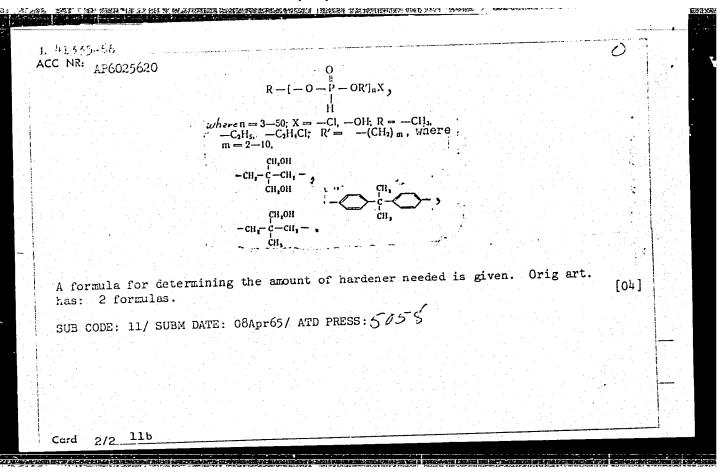
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	having viscosities similar to those of the polyurethane foams, i.e., $\eta^{250} \leq 1000$ poise. The optimal ratio of viscosity and free hydroxyl groups in polyphosphites occurs with pentaerythritol:hexane-diol = 0.3:0.7 and pentaerythritol:diethylene glycol = 0.2:0.8. Of all polyphosphites obtained with individual polyols, polytrimethylolpropane phosphite had the most acceptable viscosity. The use of metallic sodium as a catalyst permitted lowering of the initial reaction temperature, thus preventing excessive rise of the viscosity of the product. The resulting phosphor-containing polyurethane foams were self-extinguishing and thermally stable. Orig. art. has: 3 tables.	
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SOURCE CODE: UR/0190/56/008/007/1279/1232 AP6023433 - ACC NR: Shner, S. M.; Rubtsova, I. K.; Gefter, Ye. L. AUTHOR: ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut olastichoskikh mass) TITLE: Kinetics and mechanism of homonolycondensation of di-β, β'-chlorosthylphosphorous acid 1 SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 7, 1966, 1279-1282 TOPIC TAGS: polycondensation, phosphorous acid, organic phosphorus compound ABSTRACT: The kinetics of homopolycondensation of di-B, \$'-chloroethylphosphorous acid were studied at 195, 200, 205, and 210 °C without a solvent in a stream of dry nitrogen, and the 1,2-dichlorosthane evolved (from which the extent of the reaction was calculated) was driven off continuously. The reaction was shown to be first order. Its, initial stage consists of an intramolecular conversion, which proceeds via cyclic intermediates and involves a circular electron transfer in accordance with the follow ing hypothetical mechanism:

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ACC NR: AP6025620 SOUNCE CODE: UR/0413/66/000/013/0076/0076/	
AUTHORS: Kirilovich, V. I.; Shner, S. M.; Rubtsova, I. K.; Rabkina, A. E.; Zikhonova, M. A.	
ORG: none  TITLE: A method for hardening epoxy resins. Class 39, No. 183379 announced by Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)	
SOURCE: Izobretoniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 76  TOPIC TAGS: epoxy plastic, curing agent, polyester plastic, fire resistant material, organic phosphorus compound, resistant for hardening epoxy resins by phosphorus-containing hardeners. To increase the fire resistance of the polymers,	
phosphorus-containing hardeners. To increase hydrogen atom at the phosphorus atom are phosphorus-containing polyesters with a reactive hydrogen atom at the phosphorus atom are used as hardeners. These polyesters have the general formula,	
Card 1/2 UDC: 678.643.028.294:678.85	



SOURCE COPE: UR/0413/66/000/015/0088/0088 (A) AP6029915 ACC NR: Gorbunov, V. N.; Yashina, V. Z.; Rubtsova, I. K. INVENTORS: ORG: none TITLE: Method for obtaining amino-formaldehyde resins. Class 39, No. 184439 Lannounced by Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass)\_/ SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 88 TOPIC TAGS: amino plastic, formaldehyde, condensation polymerization, polymerization initiator ABSTRACT: This Author Certificate presents a method for obtaining amino-formaldehyde resins by condensing urea or melamine with formaldehyde in an and or neutral medium. To improve the physico-mechanical properties, the condensat in is carried out under pressure and in the presence of a peroxy-free-radical type initiator. The condensation may also be carried out in the presence of an unsaturated compound, e.g., methyldimethacryloxyethylphosphinate. SUB CODE: // 07 SUBM DATE: 23Jun65 UDC: 678.652.1737121141 Card 1/1

RUBTSOVA, I.K.; GEFTER, Ye.L.; YULDASHEV, A.; MOSHKIN, P.A.

Production of some hardening phosphorus—containing polyesters by the polycondensation reaction. Plast.massy no.2:22-24, 161.

(MIRA 14:2)

(Esters)

Synthesis of the others of $\mathcal{L}$ -hydroxy $\mathcal{B}$ -furyl; while 3. Flast. massy no.4:59-60 '05.	To letter	DVA, T.K., KIRIIOVICH, V.Y.
		Synthesis of the others of & -hydroxy &-furyly printe 3. Flast. massy no.4:59-60 lob.
		는 사람들이 되는 것이 되었다. 이 가장 하는 것이 되었다는 것이 되었다. 그는 것이 되었다. 
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		보는 보고 있는 것이 되는 것을 하고 있는 것이 없는 것을 받았다. 그는 사람들은 실수 없는 것이 없어 되는 것도 있다. 이 보고 있는 것이 되는 것이 되고 있을 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 

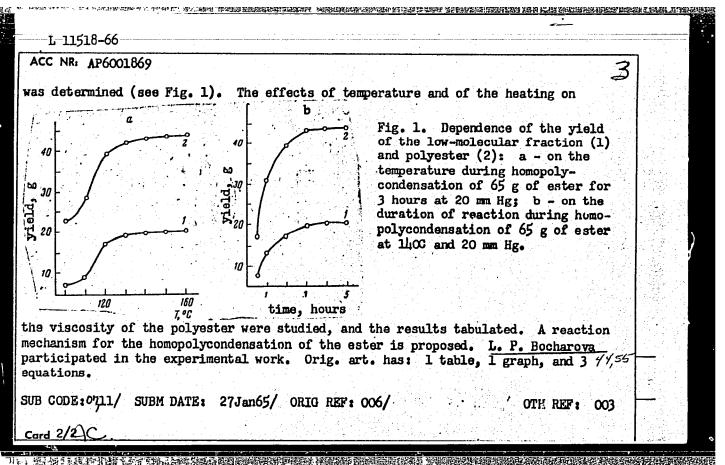
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ACCESSION NR: AP5019044	6	78.85.6	÷.
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AUTHOR: Rubtsova, I. K.; Kir	Llovich, V. 1.		4
		olymers. \ Class 39,	Take .
TITLE: A method for producing	Z DIOSPILOZ CO		打造
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SOURCE: Byulleten' izobreten	iy i tovarnykh znakov, no	); 12, 1300;	
macca polymen polycon	densation		
\$\$  100 · · · · · · · · · · · · · · · · · ·	어떤 하다 집에 하는 아니는 아니는 이 가는 이 어머니는 하는 것이 되었습니다. 그 사람들은 아니는 아니는 것 같습니다.	hod for producing phosphorus-	
ABSTRACT: This Author's Cert	ificate introduces a mou.	phosphoric acid is subjected to	14.5
containing polymers. A dialk polycondensation in the prese	nce of acid catalysts.		
polycondensation in the press		Alabackikh mass (Scientific	
ASSOCIATION: Nauchno-issled	ovatel'skiy institut plas		
Research Institute of Plastic	36)	医乳体 计引用控制 经总额 医多种性 医皮肤 医皮肤 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	
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	L 62831-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-L/Pr-L/Ps-L WW/JAJ/RM  ACCESSION NR: AP5019045 UR/0286/65/000/012/0075/0075  678.674: 678.028.294 36	
	AUTHOR: Li, P. Z.; Mikhaylova, Z. V.; Bykova, L. V.; Rubtsova, I. K.; Travnikova, L. V.	
	TITLE: A method for hardening unsaturated polyester resins. Class 39, No. 172037	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 75	
6	TOPIC TAGS: plastic, resin, polyester resin, thermal stability  ABSTRACT: This Author's Certificate introduces a method for hardening unsaturated polyester resins by copolymerization with a cross-linking phosphorus-containing agent in the presence of an oxidation-reduction system at room temperature. The thermal stability and self-stopping properties of these polyesters are improved by using di(methacrylethyl)methylphosphinate as the phosphorus-containing cross-link-	
	ing agent. ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific	
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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445910001-6

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ACCESSION NR: AP5019045		0	
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A I 11518-66 · EWT(m)/EWP(j) WW/RM	
ACC NR: AP6001869 SOURCE CODE: UR/0190/65/007/012/2142/2145	
AUTHORS: Shner, S. M.; Rubtsova, I. K.; Gefter, Ye. L.	
ORG: Scientific Research Institute for Plastics (Nauchno-issledovatel'skiy institut)	
plasticheskikh mass 44,55	ð
TITLE: Synthesis and homopolycondensation of di-\$, \$'-chloroethyl ester of	
oxymethylphosphonic acid. 2nd communication in the series, Investigation of transformation of di- \beta, \beta' - chloroethylphosphine acid and its derivatives	
SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2142-2145	
TOPIC TAGS: polymer, polymerization, polymerization rate, polymerization kinetics, polymerization degree, polyester, ether, plasphinic acid, phosphoric acid, ester, polycondensation, occasio synthetic poeces.	
ABSTRACT: Further work is reported on the properties and transformations of di-B-B'-chloromethylphosphinic acid, previously reported by S. M. Shner, I. K. Rubtsova,	
and Ye. L. Gefter (Vysokomolek. soyed., /, 1004, 1905). The symblests of the	
general method of V. S. Abramov (Dokl. AN SSSR, 73, 487, 1950) by the reaction of the acid with formaldehyde. The thermal homopolycondensation of the synthesized ester was	
The homonolycondengation viaided a phosphorus-containing poryodor and a	443
low-molecular fraction consisting of dichloroethane, ethylenechlorohydrine, and di- \(\beta\), \(\beta\)! -chloroethyl ether. The effect of temperature on the yield of polyester	
Card 1/2 UDC: 541.64+678.86	



ZARUBIN, G.G.; RUBTSOVA, I.K.; SMIRNOV, M.I.; PERTSOV, L.D.; DOLGOV, F.F.; KOKOREV, V.V.; ZHILINA, R.D.

Using alkyl aryl phosphates for plasticizing polyvinyl chloride.

Plast.massy no.5:7-10 '63.

(Vinyl compound polymers) (Phosphoric acid) (Plasticizers)

KIRILOVICH, V.I.; RUBTSOVA, I.K.; GEFTER, Ye.L.

Production of phosphorus-cintaining polyesters by polyre-esterification of dialkyl phosphites with hydroxyl-containing compounds. Plast.—

massy no.7:20-21 '63. (MIRA 16:8)

(Phosphorus organic compounds) (Esterification) (Hydroxy compounds)

MOSHKIN, P.A., GEFTER, YE.L., RUBTSOVA, I.K.

Research in the field of the synthesis and use of certain organophosphorus compounds in the plastics industry.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds) A. YE. AREJZOV, Ed. Publ. by Kazar Affil. Acad. Sci. USSR, Moscow 1962, 632 pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

Copolymerization of the di-A, A-chloroethyl ester of vinylphosphinic acid with certain unsaturated compounds. Plast.massy no.8:10-11 (MIRA 15:7)
'62. (Polymerization)

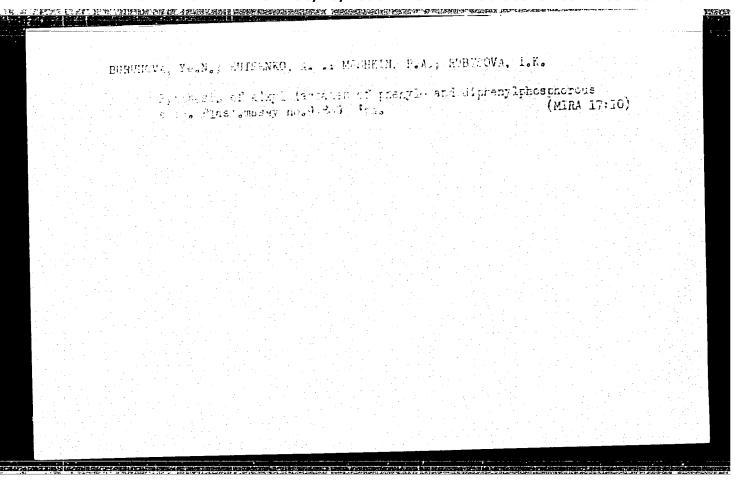
MOSHKIN, P.A.; RUBTSOVA, I.K.; ZHILINA, R.D.; MAKROKHIN, B.G.; ITENBERG, Sh.M.

Alcoholysis of somedi-13/31-cyanoethyl esters and study of the products obtained. Plast.massy no.10:60-61 '60. (MIRA 13:12) (Plasticizers) (Acrylonitrile) (Alcoholysis)

RUBTSOVA, I.K.; GEFTER, Ye.L.; YULDASHEV, A.; MOSHKIN, P.A.

Preparation of hardening phosphorus-containing polyester by polyreesterification. Plat.massy no.3:13-14 !61. (MIRA 14.3)

— (Plastics) (Esters)



89918 s/191/61/000/002/005/012 B118/B203 15.8114 Rubtsova, I. K., Gefter, Ye. L., Yuldashev, A., Moshkin, P.A. AUTHORS: Synthesis of some hardening phosphorus-containing polyesters by polycondensation TITLE: Plasticheskiye massy, no. 2, 1961, 22 - 24 PERIODICAL: TEXT: Phosphorus-containing polyesters with otherwise good properties also show essential negative features (low melting points, inability of hardening), which circumstance induced the authors to develop a method of synthesizing phosphorus-containing hardening polyesters. For this purpose, they synthesized various normal phosphorus-containing polyesters with an unsaturated bond in the side chain which could subsequently be hardened by reaction of their double bonds. They proceeded from vinyl phosphinic acid dichloride and bivalent phenols, as well as from dichlorohydrin of pentaerythrite. Vinyl phosphinic acid dichloride was synthesized in the following way: 1) by catalytic dehydrochlorination of 25 β -chloro-ethyl phosphinic acid dichloride; 2) by reaction of triethyl-Card 1/3 actively low-melting poly-

39918

Synthesis of some hardening ....

S/191/61/000/002/005/012 B118/B203

esters soluble in many organic solvents were produced. Their content of double bonds determined according to Kaufmann varied between 70 and 80 % of the theory. The polyesters synthesized hardened in the presence of the following polymerization initiators: benzoyl peroxide, hydroperoxide of cumene with admixed cobalt naphthenate, and the very active dinitrile of azo-bis-isobutyric acid (both as accelerators). M.I. Kabachnik and I non-Soviet-bloc.

Card 3/3

20484 S/191/61/000/003/002/015

B124/B203

2209 15.8114

Rubtsova, I. K., Gefter, Ye. L., Yuldashev, A., Moshkin, P.A.

TITLE:

AUTHORS:

Production of hardenable phosphorus-containing polyesters

through polyesterification

Plasticheskiye massy, no. 3, 1961, 13-14 PERIODICAL:

TEXT: A previous publication (Ref. 1: Plast massy, no. 2 (1961)) described the production of some hardenable phosphorus-containing polyesters through polycondensation. The authors studied the possibility of obtaining hardenable organophosphorus polyester resins through polyesterification of diphenyl- and diethyl ester of vinyl phosphonic acid with the aid of some dihydroxyl compounds. The reaction was conducted in an inert gas atmosphere with heating up to 250°C in the presence of magnesium chloride or zinc acetate. The reaction proceeds as follows:

→ -P-0-R"-0 $nR-PO(OR')_2 + nHO-R"-OH -$ + 2nR'OH, where

Card 1/3

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S/191/61/000/003/002/015 B124/B203

Production of hardenable...

-O-(CH<sub>2</sub>)<sub>4</sub>-O-()-; -C<sub>2</sub>H<sub>4</sub>-. The resulting polyesters were incombustible (the test was made in the flame of an alcohol burner), their melting point lay between 75 and 100°C, they were soluble in dimethyl formamide, cyclokexanone, dioxane, unsoluble in alcohols (methyl, ethyl, butyl alcohol), chloroform, and benzene. The double bonds in the polyesters synthesized were determined according to Kaufmann; their content was between 70 and 80% of the theoretical amount. The reaction was accompanied by violent decomposition in the interaction of diethyl ester of vinyl phosphonic acid with some dihydroxyl compounds, as well as in that of diphenyl ester of vinyl phosphonic acid with ethylene glycol. The characteristics of the initial substances (diethyl ester of vinyl

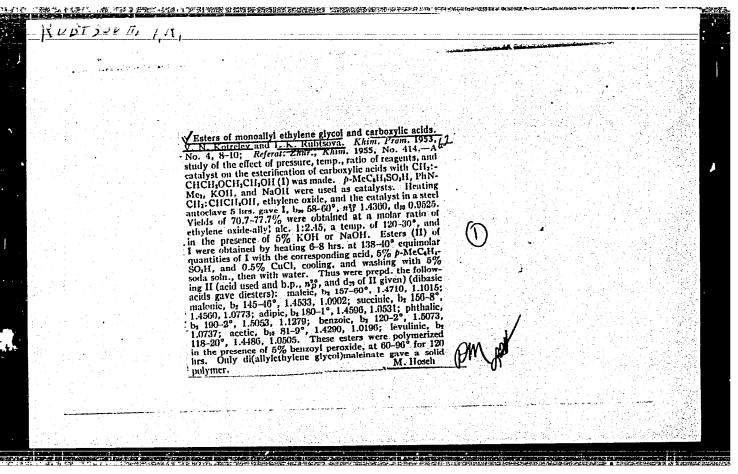
Card 2/3

20181 5/191/61/000/003/002/015 B124/B203

Production of hardenable ...

phosphonic acid, diphenyl ester of vinyl phosphonic acid, 1,4-di-(p-hydroxyphenoxy)-butane) are given, and the polyesterification of diphenyl ester of vinyl phosphonic acid with hydroquinone, diphenylol propane, resorcin, 1,4-di-(p-hydroxyphenoxy)-butane, as well as of diethyl ester of vinyl phosphonic acid with hydroquinone and ethylene glycol is described. The authors thank V. I. Lutkova and B. B. Berezina for producing 1,4-di-(p-hydroxyphenoxy)-butane. There are 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc. The reference to the Englishlanguage publication reads as follows: H. W. Coover, M. A. McCall, US Patent 2,682,522; C.A.;48, 11112 (1954).

Card 3/3



AUTHORS:

Kotrelev, V. N. Rubtsova I. K.

79-28-3-45/61

TITLE:

On the Reaction of Allyloxyethanol With Monovinylethers (O vzaimodeystvii alliloksietanola s prostymi vinilovymi efirami)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28 Nr 3, pp. 770-771

(USSR)

ABSTRACT:

By many single syntheses and investigations Shostakovskiy and his collaborators showed that acetals can be obtained by the reaction of monovinylethers with compounds containing the hydroxylgroup (reference 1). The synthesis of the acetyls which contain in their composition an unsaturated radical are described in detail (reference 2). The present investigation was conducted with the aim of synthesizing the acetals by means of allyloxyethanol and of investigating their capability for a common polymerization. The synthesis of the mentioned acetals was carried out from monovinylethers and allyloxyethanol according to the method of Shostakovskiy (see reaction process). It is known that the acetals of allyl alcohol are neither capable of polymerizing with respect to the radical nor to the ion mechanism, but that they are easily capable of

Card 1/2

On the Reaction of Allyloxyethanol With Monovinylethers

79-28 3-45/61

forming commonly forming net-like polymers. The authors investigated the capability of the allyloxyethanel acetals for common polymerization with methylmethacrylate at a ratio 10:90 in the presence of benzeylperoxide. In all cases solid, colorless and transparent polymers were obtained; some of them were of increased heat resistance (compared with polymethylmethacrylate). The following acetals unknown until new were synthesized and described: ethylallyloxyethylacetal, isopropylethylallyloxyethylacetyl n-butylallyloxyethylacetyl and diallyloxyethylacetyl of acetaldehyde. There are 1 table and 4 references which are Soviet.

ASSOCIATION:

Nauchno-issledovatel'skiy institut plasticheskikh mass (Scientific Research Institute for Plastic Materials)

SUBMITTED:

February 14, 1957

Card 2/2

KOTRELEY, V.N.; RUBTSOVA, I.K.

Interaction of allyloxyethanol with vinyl ether. Zhur. ob. khim.
28 no.3:770-771 Mr '52.

1.Nauchno-issledovatel'skiy institut platicheskikh mass.

(Vinyl ether) (Ethanol)

<del>*</del>	
L 2262-66 EWT(m)/EPF(c)/EWP(j)/T RM	
ACCESSION NR: AP5009325 S/0191/65/000/004/0059/00 AUTHORS: Rubtsova, I. K.; Kirilovich, V. I.	) <b>60</b>
TITLE: Synthesis of $\alpha$ -oxide- $\alpha$ -furylphosphinic acid esters 1,44,55	
SOURCE: Plasticheskiye massy, no. 4, 1965, 59-60	
TOPIC TAGS: ester, ether, furylphosphinic acid, polymer, monomer	
ABSTRACT: In an effort to expand the results obtained by V. S. Abramov and A. S.	
Kapustina (ZhOKh, 27, 173, 1957), the authors synthesized and studied &-oxide-&- furylphosphinic acid esters with aliphatic, heterocyclic, and aromatic radicals.	
The reactions of furfurole/with dihexyl-, diheptyl-, dioctyl-, dinonyl-, didecyl-,	
ditetrahydrofuryl-, and diphenylphosphites were investigated. All the esters	
(except the crystalline dimethyl ester) were yellow, viscous, nondistillable liqui	da
Percentage content of hydroxyl groups and iodine numbers were determined in all	
esters, the first one by the method described by I. P. Losev and O. Ya. Fedotova	
(Praktikum po khimii vysokopolimernykh soyedineniy, Goskhimizdat, 1962, 93), the second by the method of pyridinesulphatebromide. The experimental procedures used	
in producing dimethyl- \alpha-oxide- \alpha-furylphosphinate in an atmosphere of sulfur ether	
lihexyl- \alpha-oxide- \alpha-furylphosphinate, and ditetrahydro- \alpha-oxide- \alpha-furylphosphinat	.0
Card 1/4	

CCESSION NR: AP5009325		0
re presented in detail. Tak -oxide- \ -furylphosphinio s	ole 1 on the Enclosure shows the coid esters. Orig. art. has: 3 f	characteristics of commulas and 1 table.
SOCIATION: none		
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REF SOV: 006	OTHER: ,001	
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2262-66 CESSION NR: AP5009325			ENCLOSURE: 01	
Table 1. Characteristics of	-oxidefury:	lphosphinic acid e	sters	
Ester	Melting Temp.,	20 n <sub>D</sub>	20 d4	
Dimethyl Dimethyl (obt. in sulfur	62-63 62-63			
ether)			8	
Di-n-hexyl	성별 등 = 그림을 보는	1.4682	1.0563 1.0377	
Di-n-heptyl Di-n-ootyl		1,4688 1,4686	1.0377 H 1.0191 0 1.0031 U 0.9919 H	376
Di-n-nonyl		1•4678	1.0031	
Di-n-decyl		1-4671	0.9919 F	Light .
Ditetrahydrofuryl (very	•	1.4994		
viscous)		4 5/05		
Diphenyl (very viscous)	•	1.5685		

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2262-66 ESSION NR:	AP5009325				NCLOSURE: 02
	MR <sub>D</sub>	OH	, %	P,	*
		determ.	calc.	determ.	calc.
determ.	calc.	8.11 7.88	8.25 8.25	14.34 14.21	15.04 15.04
	91.61	4.83	4.91	8.8	8.96 8.28
91.0 100.14	100.84	4.26	4.54 4.22 3.97 3.71	8.0 8.1	7.7
109.5 119.08	110.08 119.31	4.08 3.31 3.28	3.97	· 7.33 5.9	7.7 7.21 6.76
128.08	128.55	3.28 4.84	4.91	8.2	8.95
		4.90	5.15	8.9	9.38

87437 \$/191/60/000/010/013/017 B004/BC60

15 8109

Moshkin, P. A., Rubtsova, I. K., Zhiling, R. D.,

Nakrokhin, B. G., Itenberg, Sn. M.

TITLE:

AUTHORS:

Alcoholysis of Some Di-pp'-Cyanethy, Esters, and

Investigation of Products Obtained

PERIODICAL:

Plasticheskiye massy, 1960, No. 10, pp. 60-61

TEXT: Proceeding from acrylonitrile the authors synthesized the following compounds:  $di^-(\beta\beta^+-cyanethyl)$ -sulfide;  $di^-\beta\beta^+-cyanethyl$  ether; furthermore,  $\beta\beta^+$ -cyanethyl ethers of ethylene-, diethylene- and trifurthermore,  $\beta\beta^+$ -cyanethyl ethers of ethylene-, diethylene- and triethylene glycols and butanediols. By alcoholysis by means of 2-ethyl ethylene glycols and butanediols. By alcoholysis by means of 2-ethyl ethylene glycols and butanediols. By alcoholysis by means of 2-ethyl ethylene glycols and butanediols. By alcoholysis by means of 2-ethyl ethylene glycols and butanediols. Acylonic acid. Acylonic a

Card 1/2

Alcoholysis of Some Di- $\beta\beta^{\dagger}$ -Cyanethyl Esters, and Investigation of Products Obtained

87437 S/191/60/000/010/013/017 B004/B060

with polyvinyl chloride resin in a ratio !: 1, plastics which catisfied the technological requirements. There are 3 tables and 4 references:

Card 2/2